

**Experiment Number:** 20536 - 02

**P18: INCIDENCE RATES OF NON-NEOPLASTIC LESIONS BY ANATOMIC SITE (a) WITH  
AVERAGE SEVERITY GRADES[b]**

**Date Report Requested:** 09/13/2012

**Test Type:** 39-WEEK

Abrasive blasting agents (specular hematite)

**Time Report Requested:** 10:28:08

**Route:** RESPIRATORY EXPOSURE WHOLE BODY

**CAS Number:** HEMATITESPEC

**First Dose M/F:** 07/27/09 / NA

**Species/Strain:** RATS/HSD

**Lab:** BNW

F1\_Rev.1\_26 Wk. SSAC

**NTP Study Number:** C20536  
**Lock Date:** 07/19/2010  
**Cage Range:** ALL  
**Date Range:** ALL  
**Reasons For Removal:** 25017 SSAC  
**Removal Date Range:** 22-Jan-2010 - 22-Jan-2010  
**Treatment Groups:** Include ALL  
**Study Gender:** Male  
**TDMSE Version:** 2.6.0.0\_007  
**PWG Approval Date:** 02/08/2012

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Harlan Sprague Dawley RATS MALE

Control

15 mg/m3

30 mg/m3

60 mg/m3

**Disposition Summary**

Animals Initially In Study	62	62	62	62
Scheduled Sacrifice	8	8	8	8
Early Deaths				
Survivors				
Animals Examined Microscopically	8	8	8	8

ALIMENTARY SYSTEM

Intestine Small, Ileum	(0)	(0)	(1)	(1)
Liver	(0)	(1)	(0)	(0)
Hepatodiaphragmatic Nodule		1		

CARDIOVASCULAR SYSTEM

None

ENDOCRINE SYSTEM

None

GENERAL BODY SYSTEM

None

GENITAL SYSTEM

None

HEMATOPOIETIC SYSTEM

Lymph Node, Bronchial	(7)	(5)	(7)	(7)
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a - Number of animals examined microscopically at site and number of animals with lesion

b-Average severity grade(1-minimal;2-mild;3-moderate;4-marked)

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Harlan Sprague Dawley RATS MALE	Control	15 mg/m3	30 mg/m3	60 mg/m3
Foreign Body		5	7	5
Hyperplasia		1 [1.0]	1 [1.0]	1 [3.0]
Infiltration Cellular, Histiocyte		3 [2.3]	7 [2.7]	5 [2.8]
Lymph Node, Mediastinal	(8)	(7)	(8)	(8)
Foreign Body		6	7	7
Hyperplasia		3 [1.0]	3 [1.0]	6 [2.5]
Infiltration Cellular, Histiocyte		5 [2.4]	7 [2.6]	7 [2.9]
Pigmentation, Hemosiderin	2 [1.5]		1 [3.0]	
<b>INTEGUMENTARY SYSTEM</b>				
Skin	(0)	(1)	(0)	(0)
Inflammation, Chronic Active		1 [4.0]		
<b>MUSCULOSKELETAL SYSTEM</b>				
None				
<b>NERVOUS SYSTEM</b>				
None				
<b>RESPIRATORY SYSTEM</b>				
Larynx	(8)	(8)	(8)	(8)
Foreign Body		8	8	8
Inflammation, Chronic Active		1 [3.0]		
Ulcer		1 [2.0]		
Epiglottis, Metaplasia, Squamous		5 [1.0]	5 [1.0]	7 [1.0]
Epithelium, Hyperplasia		1 [2.0]		
Glands, Concretion	2		2	
Glands, Inflammation, Suppurative			1 [1.0]	
Lung	(8)	(8)	(8)	(8)

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Harlan Sprague Dawley RATS MALE	Control	15 mg/m3	30 mg/m3	60 mg/m3
Foreign Body		8	8	8
Infiltration Cellular, Histiocyte	2 [1.0]	8 [1.0]	8 [1.5]	8 [2.6]
Inflammation, Chronic Active		2 [1.0]		4 [1.0]
Metaplasia, Osseous		1 [1.0]		1 [1.0]
Alveolar Epithelium, Hyperplasia		8 [1.0]	8 [1.0]	8 [2.0]
Interstitial, Fibrosis				3 [1.3]
Nose	(8)	(8)	(8)	(8)
Inflammation, Chronic Active			1 [1.0]	
Goblet Cell, Hyperplasia				1 [1.0]
Olfactory Epithelium, Accumulation, Hyaline Droplet	8 [1.3]	8 [1.8]	8 [1.3]	8 [1.9]
Olfactory Epithelium, Metaplasia, Respiratory			1 [2.0]	
Respiratory Epithelium, Accumulation, Hyaline Droplet	2 [1.0]	2 [1.0]	3 [1.0]	5 [1.0]
Trachea	(8)	(8)	(8)	(8)
Foreign Body		1	3	1
Inflammation, Chronic Active	1 [1.0]	1 [1.0]	3 [1.0]	1 [1.0]
Metaplasia, Osseous			1 [1.0]	
Glands, Inflammation		1 [1.0]		

## SPECIAL SENSES SYSTEM

Lacrimal Gland	(0)	(1)	(0)	(0)
Inflammation, Chronic Active		1 [2.0]		

## URINARY SYSTEM

None

\*\*\* END OF REPORT \*\*\*

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